

re-start

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REEL # 246

Korbut, A.A.

NEFEDOV, P.P., kand. tekhn. nauk; ZAPOROZHETS, N.M., inzh.; KORBUT, A.A., inzh.;
LOPUKHOV, A.Ye., inzh.

Present-day method of solving the problem of the distribution of
masses of earth. Transp. stroi. 14 no.4:41-43 Ap '64. (MIRA 17:9)

KARLOVITZ

Acta Chimica
 Academiae Scientiarum Hungaricae
 Vol 13, Nrg 3-4, P 377
 A NEW ISOQUINOLINE/RING I.
 S. Beke, K. Harsanyi, and L. K. ...
 Institute of Organic Chemistry, Hungarian Academy of Sciences, Budapest
 Received August

10
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 2

Summary

By reacting cotarnone with aniline in the presence of catalytic alkali, two different products of reaction could be isolated, depending on experimental conditions. The compound melting at 90° proved to be cotarnone anil, whereas that melting at 121° was found to be 1-ethoxy-2-phenyl-nor-hydrocotarnine. When the reaction is carried out in methanol or n-propyl-alcohol instead of ethanol, the 1-ethoxy- and the 1-n-propoxy-derivatives, respectively, are obtained. These compounds may reversibly be converted into one another by recrystallizing from the corresponding alcohol. By catalytic hydrogenation all of them are converted to 1-phenyl-nor-hydrocotarnine. Treatment with halogen hydrogen acids afforded ammonium salts which, on treatment with sodium cyanide, gave N-phenyl-1-phenyl-nor-hydrocotarnine pseudo-cyanide, and with sodium cyanide the compound loses itself. The authors compare the evolved 1-ethoxy-2-phenyl-nor-hydrocotarnine with PIGET--SPENGLER synthesis of isoquinoline.

[Handwritten signatures]

hydrocotarnines with PIGET--SPENGLER synthesis of isoquinoline.
 [Retyped clipped abstract]
 Card 1/1

HUNGARY / Organic Chemistry. Synthetic Organic
Chemistry. G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50372
 Author : Beke, D.; Harsanyi, K.; Korbonits, D.
 Inst : -
 Title : A New Reaction for Closing of the Isoquinoline
 Ring. I.
 Orig Pub : Magyar kem, folyoirat, 1957, 63, #10, 265-268.

Abstract : Exhaustive methylation of cotarine (I) leads to
 the formation of cotarnone (II). Studying the
 reactions of II with various amines, the authors
 succeeded in reacting aniline (A) with an alco-
 holic solution of II and KOH and in separating
 two new substances, anil-cotarnone (IIa), m.p.
 90°, and 1-ethoxy-2-phenyl-nor-hydrocotarnine I
 (2-phenyl-8-methoxy-1-ethoxy) (6,7-methylenedioxy-

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HUNGARY / Organic Chemistry. Synthetic Organic
Chemistry.

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50372

1,2,3,4-tetrahydroisoquinoline) (Ia), depending
 on experimental conditions. II was prepared by
 reacting CH_3I or $(\text{CH}_3)_2\text{SO}_4$ with I. In both cases
 (in the latter without separation of an inter-
 mediate methylcotarnine methyl iodide) after
 treatment with a 10 or 20% NaOH 80% yield was
 obtained, m.p. 72-73° (from alc.). Interaction
 of 4 g of chem. pure KOH in 6 ml H_2O + 75 ml al-
 cohol, with a mixture of 10.3 g II, 9.2 g A and
 75 ml alcohol yielded 8.85 g IIa. (36 hrs, at
 ~20° (3 days at 0°C). Boiling in pyridine
 (instead of KOH) the same product was obtained,
 m.p. 89°. To prove the structure of IIa the
 latter was hydrated in ethylacetate (EA), over

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HUNGARY / Organic Chemistry. Synthetic Organic
Chemistry. G

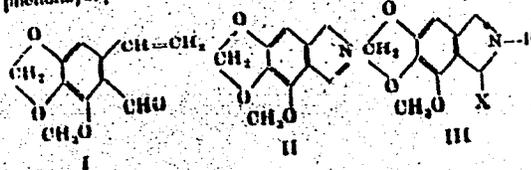
Abs Jour : Ref. Zhur.- Khimiya, No. 15, 1958, No. 50372

derivatives were formed. Upon catalytic hydro-
bromination (at above described conditions) of
Ia or other alkoxy derivatives N-phenyl-nor
cotarnine bromide (2-phenyl-8-methoxy-6,7-
methylenedioxy-3,4 dihydroisoquinoline bromide)
was isolated (Ib), m.p. 178-180° (dec.). Upon
passing of dry HCl through a solution of Ia in
Et₂O, yellow chloride was separated. Its aqueous
solution with KCN formed N-phenyl-nor cotarnine
pseudo cyanide (1-cyano-2-phenyl-8-methoxy-Ia)
m.p. 115-116° (from alc). Ib reacted with a 10%
NaOH formed N-phenyl nor-I (2-phenyl-1-oxy-8-
methoxy-Ia). This pseudobasis, upon boiling,
was transformed into Ia. Ethoxy-, methoxy- or

Gard 4/5

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 129. A new isoquinoline ring closure reaction. (In German)
 D. Beky, K. Harasnyl, D. Korbonits. *Periodica Polytechnica, Chemical Engineering*, Vol. 7, 1963, No. 4, pp. 223-229.

The reactions of various *o*-formyl styrenes with ammonia and amines were studied in alkaline alcoholic medium. Cotarone (I) was converted by ammonia into nocotarnine (II) while reaction with aliphatic or aromatic amines resulted in the formation of Schiff bases for the derivatives of analogs of cotarone bearing various alkyl, arylalkyl or aryl groups at the nitrogen atom depending on the conditions of the reaction. In these compounds the C₁ carbon atom bears an alkoxy (IIIa) or arylamino (IIIb) group and an uracilo (IIIc) or arylamino (IIId) group if urea or alkali cyanide was simultaneously added to the reaction mixture. The isoquinoline derivatives may also be prepared from isolated Schiff bases. Aromatic amines bearing substituents of -I and -F effects formed only Schiff bases (e. g. *p*-aminoacetophenone) or produced no reaction whatever (e. g. *p*-nitroaniline).



R = alkyl, arylalkyl or aryl
 X = -OR (a); -NH-Ar (b); -NH-CO-NH₂ (c); -CN (d).
 In addition to I, cyclization could be carried out in the series of the studied *o*-formyl styrenes only with bromocotarone. The experiment failed with hydroxal as well as with 4,5-dimethyl-2-formyl styrene.

6
 299 (May)
 4E2c fj
 4E3d

HUNGARY / Organic Chemistry. Natural Compounds
and Their Synthetic Analogs.

G-3

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77831.

Author : Beke, D., Harsanyi, K., and Korbonits, D.
Inst : Not given.
Title : A New Type of Isoquinoline Ring Closure Reaction.
II. A New Synthesis and Chemical Reactions of
Norcotarnine (6,7-methylenedioxy-8-methoxy-
3,4-dihydroisoquinoline).

Orig Pub: Magyar Kem Folyoirat, 64, No 3, 118-120 (1958)
(in Hungarian with a German summary); Acta Chim
Acad Sci Hung, 16, No 4, 439-444 (1958) (in German
with summaries in English and Russian).

Abstract: The action of NH_3 on cotarnone (I) in the presence
of KOH in alcoholic solution leads to the syntheses
of norcotarnine (6,7-methylenedioxy-8-methoxy,

Card 1/5

HUNGARY / Organic Chemistry. Natural Compounds
and Their Synthetic Analogs.

G-3

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77831.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824610001

Abstract: 3,4-dihydroisoquinoline) (II). Preparation: A
solution of 1.03 gm I in 7 ml alcohol, 8 ml of
alcoholic NH_3 (0.04 gm NH_3 per ml), and 0.2 ml
KOH (1.4 gm KOH / 1 gm water) are heated together
in a bomb at 80° for 15 hrs; the addition of dry
HCl to the ether solution of the residue (after
removal of the solvent) gives a precipitate of
0.92 gm of the hydrochloride of II which on pur-
ification with acetone is reduced to 0.87 gm, mp
 187° ; the base obtained from the latter compound
by the action of Na_2CO_3 has an mp of $91-92^\circ$ (from
benzene, bp $40-100^\circ$), picrate mp $181-182^\circ$, iodide
mp 180° (from alc). When 2.05 gms II in 15 ml of
ethyl acetate are heated with 2 ml $\text{C}_2\text{H}_5\text{I}$, 3.29

Card 2/5

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HUNGARY / Organic Chemistry. Natural Compounds

G-3

KORBONITS, D., BEKE, D., HARSANYI, K.

A new isoquinoline ring-closure reaction, V. Investigation of the mechanism of reaction. In German, p. 415.

ACTA CHIMICA. (Magyar Tudományos Akademia) Budapest, Hungary, Vol. 20, No. 4, 1959

Monthly List of East European (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

KORCONITS, D.; BEKE, D.; HARSANYI, K.

A New isoquinoline-ring-closure reaction. III. Reaction of cotarnone with aromatic amines. IV. Reaction of cotarnone with aliphatic amines. p.259

ACTA CHIMICA. Budapest, Hungary. Vol. 19, no. 2/3, 1959

Monthly List of East European Accessions (EEAI), LC. VOL. 8, No. 9, September 1959

Encl.

KCFECSITS, D.; BEKE, D.; HARSANYI, K.

"A new isoquinoline-ring-closure reaction. III. Cotarnone reaction with aromatic amines." p. 37.

MAGYAR DEMIAI FOLYOIRAT. (Magyar Kemikusok Egyesulete). Budapest, Hungary,
Vol. 65, No. 1, Jan. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August
1959.
Uncia.

G-3

COUNTRY : Hungary
CATEGORY :

78739

ABB. JOUR. : RZKhim., No. 22 1959, No.

AUTHOR : Beke, D., Harsanyi, K., and Korbonits, D.
INST. : Not given
TITLE : A New Isoquinoline Ring Closure Reaction. IV.
The Reaction of Cotarnone with Aliphatic Amines

ORIG. PUB. : Magyar Kem Folyoirat, 65, No 2, 78-81 (1959)

ABSTRACT : By heating cotarnone (2-vinyl-4,5-methylenedi-
hydroxy-6-methoxybenzaldehyde) (I) in alkaline al-
cohol with aliphatic amines or with benzylamine,
or with the Schiff bases prepared from these
amines, in the presence of KCN or CO(NH₂)₂, the
authors were able to prepare compounds containing
the isoquinoline skeleton, i.e., analogs of hydro-
cotarnone containing as substituents the CN- or
NHCONH₂-groups at the 1-position. A solution of
5.15 gms I in a mixture of 40 ml CH₃OH and 4 ml

CARD: 1/9

G-3

COUNTRY : Hungary
CATEGORY :

ABB. JOUR. : RZKhim., No. 22 1959, No.

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : 50% KOH is treated at 40° with 10 ml 50% aqueous
CH₃NH₂; when the solution is allowed to stand
24 hrs at 0°, 5.12 gms of 2-vinyl-4,5-methylene-
dihydroxy-6-methoxybenzylideneethylamine (II)
are obtained, mp 85-87°. On addition to the
solution of 1.05 gm I in a mixture of 15 ml
CH₃OH, 4 ml 50% KOH, and 2 ml C₂H₅N (40°), fol-
lowed by the addition of 0.92 gm benzylamine
after about 12 hrs at 0°, 1.55 gm of 2-vinyl-
4,5-methylenedi-hydroxy-6-methoxybenzylideneben-
zylamine (IIa) is obtained, mp 70-71° (from

CARD: 2/9

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G-3

COUNTRY : Hungary
CATEGORY :

78739

ABB. JOUR. : RZKhim., No. 22 1959, No.

COUNTRY : Hungary
CATEGORY :
ABS. JOUR. : RZKhim., No. 22 1958, No. 78739
AUTHOR :
TITLE :
ORIG. PUB. :
ABSTRACT : 0.1 ml 60% KOH and 0.32 gm KCN over a water bath; when the solution is cooled, a rapidly crystallizing oily product (1.15 gm) is obtained, identified as the isocyanide of N-benzylnorcotarnine, mp 155° (from alc); the product does not give a depression [sic] (see RZKhim. 1958, No 23, 77331) with the isocyanide obtained from the bromide of N-benzylnorcotarnine. A mixture of 1.1 gm II, 4.2 ml C₂H₅OH, 0.2 ml 60% KOH, and 0.32 gm CO(NH₂)₂ is refluxed (water bath, 10 min) and allowed to

CARD: 5/9

G-3

COUNTRY : Hungary
CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No.

78759

ANCHOR :
TITLE :

ORIG. PUB. :

ABSTRACT : line), λ , 159-160° (from alc). Following decom-
position with HCl (acid), neutralization, and con-
version to the isocyanide, the last-named product
does not give a depression with the isocyanide
obtained from the bromide of N-benzylnorcotarnine
by reaction with KCN. In studying the ring clos-
ure in the presence of semicarbazide, the authors
refluxed (water bath) 1.43 gm IIa for 10 min with
10 ml C_2H_5OH , 0.6 ml 60% KOH, and 0.65 gm $NH_2CO -$
 $NHNH_2 \cdot HCl$; after 24 hrs, crystals (1.0 gm) of the

CARD: 7/9

KORPONITS, D.; HEDE, D.; HARSANYI, K.

A new isoquinoline ring closure reaction. V. p. 298.

MAGYAR KEMIAI FULYOIRAT. (Magyar Kemikusok Egyesulete) Budapest, Hungary.
Vol. 65, no. 8, Aug., 1960

Monthly List of East European Accession (EEAI), IC, Vol. 9, no. 2, Feb. 1960

Uncl.

L 44061-66

ACC NR: AP6032669

SOURCE CODE: HU/0005/66/000/002/0059/0062

AUTHOR: Korbonits, Dezsó; Harsanyi, KalmanORG: Chinoin Pharmaceutical Works, Budapest (Chinoin Gyogyszerarugyar)

TITLE: Data on the chemistry of heterocyclic, pseudobasic aminocarbinols. Part 30: New isoquinoline ring-closing reaction. Section 7: Transformations of cotarnon-oxime in an alkaline medium

SOURCE: Magyar kemiai folyoirat, no. 2, 1966, 59-62

TOPIC TAGS: Schiff base, heterocyclic base compound, organic nitrile compound

ABSTRACT: The behavior of cotarnon oxime (cf. ROSER, W.; Liebigs Ann. Chem., Vol 249, 1888, p 164) under ring-closing conditions with the aid of Schiff bases (as described by the authors in earlier instalments of this series in this journal between 1959 and 1965) was investigated. It was found that this compound transforms into cotarnon nitrile when heated in ethyl alcoholic potassium cyanide solution, and into 6,7-methylenedioxy-8-methoxy-3,4-dihydro-iso-carbostyryl when heated in a potassium hydroxide solution. In the presence of potassium hydroxide and catalytic quantities of potassium cyanide it transforms into 6,7-methylenedioxy-8-methoxy-isoquinoline. The authors thank Professor Beke Denes and Horvath Gabor for carrying out the UV and IV spectrums, Baloghne Batta Ilona for carrying out the microanalysis, and Torok Sandor for assistance in carrying out the experiment. Orig. art. has: 2 figures.

[JPRS: 34,805]

SUB CODE: 07 / SUBM DATE: 30Apr65 / ORIG REF: 007 / OTH REF: 011

Card 1/1 blg

L 44066

ACC NR: AP6032670

SOURCE CODE: HU/0005/66/000/002/0063/0067

CIA-RDP86-00513R00082461000

AUTHOR: Korbonits, Dezsó; Harsanyi, KalmanORG: Chinoin Pharmaceutical Works, Budapest (Chinoin Gyogyszerarugyar)

TITLE: Data on the chemistry of heterocyclic, pseudobasic aminocarbinols. Part 31: New isoquinoline ring-closing reaction. Section 8: Synthesis of a N,N'-Bis(isoquinoline)

SOURCE: Magyar kemiai folyoirat, no. 2, 1966, 63-67

TOPIC TAGS: organic synthetic process, heterocyclic ring compound, hydrazine derivative

ABSTRACT: The hydrazone derivatives of cotarnon transform into isoquinoline derivatives when heated in alkaline alcohol in the presence of potassium cyanide catalyst. N,N'-bis(isoquinoline) derivatives form from cotarnazine under these conditions in the absence of catalyst. If a catalyst is present the reaction product is a mixture of isoquinoline and norcotarnin. The steps leading to the synthesis of N,N'-bis(isoquinoline) were described in detail and the structure of the product was verified by infrared spectroscopy. The UV and IV spectrums were carried out and evaluated by Holly Sandor and Milch Gyorgy, the microanalysis by B. Batta Ilona and Rempart Istvan. The authors give thanks to Torok Sandor and Bako Erzsebet for assistance in carrying out the experiments. Orig. art. has: 1 figure.

[JPRS: 34,805]

SUB CODE: 07 / SUBM DATE: 30Apr65 / ORIG REF: 008 / OTH REF: 005

Card 1/1

KORBONITS, Dezso, okleveles mernok, tudományos főmunkatárs.

Certain questions of quarry products from the points of view
of road construction. Melyepitestud szemle 13 no.11:481-483
N°63.

1. Utugyi Kutató Intézet.

KORBONSKAYA, Ya. I.

Korbonskaya, Ya. I. "The effect of cercosporosis on the transpiration of grape leaves",
Soobshch. Tadzh. filiala Akad. nauk SSSR, Issur 14, 1949, p. 6-8.

SO:U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

~~KORBONSKAYA, Ya. I.~~

Uredineae of oremurus in connection with problems of ornamental
floriculture. Dokl. AN Tadzh. SSR no.1:31-34 '51. (MLRA 9:10)

1. Institut botaniki Akademii nauk Tadzhikskey SSR. Predstavleno chlenom-
korrespondentom Akademii nauk Tadzhikskey SSR P. M. Ovchinnikovym.
(Uredineae) (Desert candle)

GURSKIY, A.V.; ZAPRYAGAYEVA, V.I.; KOROLEVA, A.S.; RYABOVA, T.I.;
SMOL'SKIY, M.V., redaktor; KORBOVSKAYA, Ya.I., redaktor; PROLOV,
P., tekhnicheskii redaktor.

[Landscaping cities and villages of Tajikistan] Ozelenenie gorodov
i poselkov Tadzhikistana. Stalinabad, Izd-vo Akademii nauk Tad-
zhikskoi SSR, 1953. 137 p. (Akademia nauk Tadzhikskoi SSR,
Stalinabad. Trudy, vol. 14) (MLRA 9:8)
(Tajikistan--Landscape gardening)

KORBONSKAYA, Ya.I.; GRIGOR'YEV, Yu.S., redaktor; KOBOLEVA, A.S., redaktor;
FROLOV, P.M., tekhnicheskij redaktor.

[Rust fungi of Tajikistan] Rshavchinnye griby Tadshikistana.
Stalinabad, Izd-vo Akademii nauk Tadshikskoi SSR, 1954. 94 p.
(Akademia nauk Tadshikskoi SSR, Stalinabad. Trudy, vol. 30).
(MLRA 9:11)

(Tajikistan--Uredineae)

KORBONSKAYA, Ya.I.

Fusarium in eucemia. Dekl. AN Tadsh. SSR no. 12:59-64 '54. (MIRA 9:9)

1. Institut botaniki AN Tadshikekey SSR. Predstavlene chlenem-korrespondentem AN Tadshikekey SSR, dektorem biologicheskikh nauk P.N. Ovchinnikovym.

(EUCOMMIA) (FUSARIUM)

KORBONSKAYA, Ya. I.

New species of rust fungus from the Turkestan Range. Bot. nat.
Otd. spor. rast. 11:149-150 Ja '56. (MLBA 9:11)
(Matcha District--Uredineae)

KORBONSKAYA, Ya. I.

New species of rust fungi from southern Tajikistan. Dokl. AN
Tadzh. SSR no. 22:29-30 '57. (MIRA 11:?)

1. Institut botaniki AN Tadjhikskoy SSR.
(Tajikistan--Rusts(Fungi))

KORBONSKAYA, Ya.I.

Fungi of Juniper forests of the central part of the Turkestan
Range. Trudy AN Tadzh.SSR. 73:233-257 '58. (MIRA 12:2)
(Turkestan Range--Fungi, Phytopathogenic)

KORBONSKAYA, Ya.I.

History of the rust fungi of the Gissar Range. Dokl. AN Tadsh.
SSR 2 no.3:45-47 '59. (MIRA 13:4)

1. Botanicheskiy institut AN Tadshikskoy SSR. Predstavleno
chlenom-korrespondentom AN Tadshikskoy SSR A.Sh.Shukurovym.
(Gissar Range--Rusts(Fungi))

BLIZHEVSKII, L.A.; KORBOV, M.M.; SERGHEEV, A.V.; STRUZHASTRAKH, Ye.I.,
dotsent, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Handbook on the establishment of machine tool work norms for
unit and small scale production] Spravochnik po normirovaniu
stanochnykh rabot v edinichnom i melkoseriinom proizvodstve. Mo-
skva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1955.
458 p. (MLRA 8:6)

(Machine-shop practice)

KORBOV, Meyer Moiseyevich; FRATKIN, Boris Abramovich

[Let's lower production costs] Snizhaem sebestoimost' produktii.
Moskva, Profizdat, 1958. 32 p. (MIRA 13:4)
(Costs, Industrial)

KORBOV, M. I.

~~MAKSEYEVICH~~

PHASE I BOOK EXPLOITATION

603

Blizhevskiy, Lev Abramovich; Korbov, Meyer Moysseyevich; and Sergeyev, Aleksandr Vladimirovich

Spravochnik po normirovaniyu stanochnykh rabot v yedinichnom i mal'koseriynom proizvodstve (Handbook on Setting of Standards for Machine-tool Operation Involving Single-unit and Small-lot Production) 2d ed., rev. and enl. Moscow, Mashgiz, 1958. 23,000 copies printed.

Ed.: Struzhestakh, Ye. I., Engineer; Ed. of Publishing House: Barykova, G. I.; Tech. Ed.: Tikhonov, A. Ya.; Managing Ed. for literature on the economics and organization of production (Mashgiz): Saksaganskiy, T. D.

PURPOSE: This handbook is intended for technologists, standard setters, and foremen.

COVERAGE: The handbook contains consolidated time standards for operating cutoff power saws, boring machines, milling machines, grinding machines, planers, slotters, gear cutters, and lathes. Recommended time standards are calculated for conditions prevailing in single-unit production and in small-lot production,

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Handbook on Setting of Standards (Cont.)

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where universal equipment, standard cutting tools, standard measuring instruments, and other universal devices are commonly used. Standards assembled in this handbook are intended for establishing time standards for operations carried out in mechanical maintenance and tool shops of machine-building and metal-working enterprises, as well as in principal machine shops engaged in production on a single-unit and small-lot basis. There are no references.

TABLE OF CONTENTS:

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Introduction	4
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Setting of standards for cutting-off operations	7
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Setting of standards for lathe operation	14
Preparatory time (podgotovitel'no-zaklyuchitel'noye)	24

Card 2/10

2

KORBOV, M.; BUSHUYEV, M.

Compiling plans for organizational and technical measures at the
factory. Sots.trud 4 no.5:104-108 My '59. (MIRA 12:8)

1. Nachal'nik otdela truda i zarabotnoy platy Lyuberetskogo zavoda
im. Ukhtomskogo (for Korbov).

(Employees' representation in management)
(Liubertsy--Agricultural machinery industry)

KORBOV, M.

Simplified method for the setting of production norms and wage rates. Sots.trud 4 no.9:118-120 S '59. (MIRA 13:1)

1. Nachal'nik otдела truda i zarabotnoy platy Lyuberetskogo zavoda sel'skokhozyaystvennykh mashin im. Ukhtomskogo.
(Production standards)

~~KORBOV, M.~~

Wages of production workers in a pilot plant. Sots. trud 5 no.9:
125-127 S '60. (MIRA 13:10)

1. Nachal'nik otdela truiy i zarplaty zavoda im. Ukhtomskogo.
(Lyubertsy--Agricultural machinery industry)

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV, A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARITONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAPIRO, M.Ya.; ANAN'YAN, V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D., retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent; KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent; KORBOV, M.M., retsenzent; LEONOV, N.I., retsenzent; LUR'YE, G.B., retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of machinery; in 4 volumes] Spravochnik normirovshchikamashinostroiteliya; v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms for operating machine tools] Tekhnicheskoe normirovanie stanochnykh robot. Pod red. E.I.Struzhestrakha. 1961. 392 p.
(MIRA 14:8)

(Industrial management) (Machine tools)

SPIRKIN, I.; KORBOV, M.

Rights and duties of efficiency experts. Sots. trud 6 no.4:
96-98 Ap '61. (MIRA 16:7)

1. Nachal'nik otdela truda i zarabotnoy platy Lyuberetskogo zavoda
sel'skokhozyaystvennogo mashinostroyeniya im. Ukhtomakogo (for
Korbov).

(Production standards)

VYACHESLAVOV, Mikhail Iosifovich; TSEYTS, I.E., inzh., retsenzent; KORBOV, M.M., retsenzent; DESYATKOV, M.I., inzh., red.; SEMENOVA, M.M., red. izd-va; EL'KIND, V.D., tekhn. red.

[Methods for establishing consolidated time norms for technical standardisation of milling operations; piece and small lot production] Metodika postroeniia ukрупnennykh normativov vremeni dlia tekhnicheskogo normirovaniia frezernykh rabot; edinichnoe i melkoseriinoe proizvodstvo. Moskva, Mashgiz, 1962. 119 p. (MIRA 15:6)
(Metal cutting--Production standards)

KORBOV, M.M., inzh.

"Labor saving in auxiliary operations in the manufacture of machinery"
by B.Z.Mil'ner. Reviewed by M.M.Korbov. Vest.mash. 42 no.4:88
Ap '62. (MIRA 15:4)

(Factory management) (Mil'ner, B.Z.)

KORBOV, M.; TITOVA, N., inzh.

"Tables for computing wages for workers in enterprises of machinery manufacturing and metalworking industries" by V. M. Vinnichenko, D. I. Pavlov. Reviewed by M. Korbov, N. Titova. Sots. trud 7 no.8:156-157 Ag '62. (MIRA 15:10)

1. Nachal'nik otdela truda i zarabotnoy platy zavoda im. Ukhtomskogo (for Korbov). 2. Otdel truda i zarabotnoy platy Yaroslavskogo parovozoremontnogo zavoda (for Titova).

(Wages--Machinery industry) (Wages--Metalworkers)

KORBOV, M.; SILANT'YEVA, N.

Time study and work norms on automatic production lines.
Sots.trud. 7 no.6:64-69 Je '62. (MIRA 16:2)
(Time study) (Automation)

KABANOV, N.Ya.; GORBUNOV, Ye.K., inzh., retsenzent; KORBOV, M.M.,
inzh., retsenzent; GAL'TSOV, A.D., inzh., red.;
SEMENOVA, M.M., red. izd-va; DEMKINA, N.F., tekhn. red.

[Establishment of norms and organization of work for
auxiliary workers in machinery enterprises] Normirovanie
i organizatsia truda vspomogatel'nykh rabochikh na ma-
shinostroitel'nykh predpriatiakh. Moskva, Mashgiz,
1963. 149 p. (MIRA 16:6)
(Machinery industry--Management)

KORBOV, M.M.

Reduce manual work and auxiliary time at each operation.
Mashinostroitel' no.12:4 D '63. (MIRA 17:1)

AND THE INDEXES
PROCESSES AND PROPERTIES INDEX

KORBOVA, B.

CA

7

Conductometric determination of sulfur in washings from the calorimetric bomb. Blazena Korbova. *Paliva* (Praga) 20, 208-11(1948).—The S is burned to SO₂ in the calorimetric bomb, the SO₂ is dissolved in water, and the H₂SO₄ content is detd. by measuring the elec. cond. of the soln. The method is not suitable for coal with a high ash, but it is satisfactory for tech. purposes. The amt. of HNO₃ formed by combustion of the coal is negligible.
Mikol Hudlicky

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL INDEXES

GENERAL INDEXES

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL INDEXES

GENERAL INDEXES

CA KORBŮVA, B.

21

Determination of the calorific value of the volatile matter in coal. Blazena Korbůva, Vladimír Charvát, and Břetislav Šimek (Coal and Minerals Research Inst., Prague). *Palaeo* 30, 331-7(1950).—The methods of Loring (C.A. 6, 3008) and Geipert (C.A. 21, 166) are neither accurate nor reproducible in many samples. A method for the calcn. of calorific value of the volatile matter (gas, tar, and water) is proposed, in which coal is coked at 1000°, the amt. of coke is detd., its calorific value is assayed and subtracted from that of the original coal sample. The heat of carbonization is taken as 0. On an ash-free basis, the calorific values of cokes from similar coal samples are nearly const., so that such data can be applied without individual combustion analysis of the cokes. James L. Jesl

KORBOVA, L.
SMANL, O., Dr. Doc.; KOHOUT, J., Dr.; KORBOVA, L., Dr.; KOVARIKOVA, A., Dr.

Neurohumoral effects on gastric secretion. *Gas. lek. cesk.* 44 no.12:
293-294 28 Mar 55.

1. Z I. interni kliniky K.U., prednosta prof. Dr. Matousek
(STOMACH, physiology
gastric secretion, neurohumoral eff. on)
(GASTRIC JUICE
secretion, neurohumoral eff. on)

KORBOVA, L.

KOHOUT, J.Dr; KORBOVA, L.Dr.

Effect of small doses of histamine on gastric secretion in dogs and an attempt to influence that secretion with the antihistaminic drug Spofa 325 (Alfadryl) Cas. lek. cesk. 44 no.12:294-298 18 Mar 55.

1. Ustav pro vseobecnou a pokusnou patologii, predn. prof. dr. J.Hepner.

(GASTRIC JUICE

secretion in dogs, eff. of histamine & antihistaminics
alfadryl)

(HISTAMINE, effects

on gastric secretion in dogs)

(ANTIHISTAMINICS, effects

alfadryl on gastric secretion in dogs)

KORBOVA, L.E.
KORBOVA, L.Dr; KOROUT, J.Dr.

Immersion of extremities into hot water as impulse for gastric secretion in dogs. Cas.lsk.cesk. 44 no.12:298-300 18 Mar 55.

1. Ustav pro vseobecnu & pokusni patologii; predn. prof. Dr
J.Hepner

(GASTRIC JUICE

secretion in dogs, eff. of immersion of extremities in
hot water)

(HEAT, effects

immersion of extremities in hot water as impulse for
gastric secretion in dogs)

KORBOVA, L. As.

GREGOR, O.As. Dr.; KOHOUT, J., As. Dr.; KORNOVA, L.As.Dr.

Neuroregulatory function of stomach in various physiological and pathological conditions in experiments with animals and in the clinic.
Cas. lek. cesk. 44 no.12:300-301 18 Mar 55.

1. Z I. interni kliniky; predn. prof. Dr.M.Natousek
(CENTRAL NERVOUS SYSTEM, physiology
stomach funct. & pathol. cond. in animals)
(STOMACH, physiology
role of CNS in funct. & pathol. cond. in animals)
(PEPTIC ULCER, etiology and pathogenesis
role of CNS)

KORBOVA, L.

KOHOUT, J. Dr.; KORBOVA, L. Dr.

Contribution to the study on the reaction of the cardiovascular system to stimulation of the mechanoreceptors of the stomach in dogs. Cas. lek. cesk. 44 no.12:301-304 18 Mar 55.

1. Ustav pro vseobecnou a pokusnou patologii; predn. prof. Dr. J. Hepner.

(CARDIOVASCULAR SYSTEM, physiology
reaction to stimulation of stomach mechanoreceptors in dogs)

(STOMACH, physiology
stimulation of mechanoreceptors, eff. on cardiovasc. system in dogs)

KORBOVA, L.

✓ Neurohumoral influences on the gastric secretion. II.
 The action of low doses of histamine on the gastric secretion
 of dogs and an attempt to influence this secretion by means
 of the antihistamine substance Spofa 325 (Alphadryl).
 MD J. Kohout, L. Korbová, and N. Sargonová (Ust. pro vseebec.
 a pokus. pãkãt., Prague). *Časopis Lãkãrã Cechãk 94,*
 234-8(1955).—Gastric fistula was induced in 12 dogs and a
 Pavlovian "small stomach" in some of them. After sub-
 cutaneous injection of 5-200 γ histamine (I) an increase of
 gastric secretion was noted. The juice was of mucinous
 nature; in most cases there was also an increase of pepsin
 concn. and overall acidity. Free HCl appeared after
 different doses of I in some of the dogs. Administration of
 1-ml. water influenced the secretion only slightly or not at
 all. When the antihistamine Alphadryl (α -methylbenz-
 hydryl 2-dimethylaminoethyl ether hydrochloride) was ad-
 ministered 0.5 hr. before the administration of I, a decrease
 of gastric secretion by 40-60% was noted in 12 out of 15
 expts. Total acidity was also lower than with I alone.
 I. M. Hais

2

KORBOVA, LIBUSE

A vasoactive hypertensin-like substance in the blood of hypertensive patients: Evžen Eiselt, Jiří Kohout, Libuše Korbová and A. Ženíšek (Karlovy Univ., Prague). *Časopis lékařů českých* 95, 685-90 (1956).—The hypertensin-like substance was prepd. in the following way: 200 ml. of venous blood was centrifuged. The resulting serum was deproteinized with 3.75 vols. of 75% Me₂CO, the pptd. proteins filtered off and the pH adjusted to 4.5 with CH₃COOH. After removing Me₂CO by distn. the remaining soln. was evapd. to dryness on a water bath and the residue dissolved in H₂O (10 ml. H₂O/50 ml. serum). The soln. was dialyzed 24 hrs. against H₂O after which the pH of the dialyzate was adjusted to 7.3 and 5 ml. was injected into dogs. The vasoactivity was detd. by measuring the blood pressure directly and indirectly on the carotid artery. The absence of adrenalectomy-like substances in such vasoactive exts. was demonstrated biologically by innervation of the exts. on isolated frog eyes. The increase of blood pressure after injection of these exts. corresponds to the increase produced by 25-50 γ adrenaline. The authors suggest that the substance responsible for this increase is hypertensin. It is not possible to demonstrate the substance by direct measurement of the blood pressure in healthy subjects or in subjects where the decrease of diastolic pressure under 100 mm. Hg followed treatment with Serpasil. — A. Ženíšek

KOHOUT, J., KORBVA, L.; KORNALIK, F.

Effect of antihistaminics on experimental gastric ulcer. Cesk. fysiол.
8 no.3:209-210 Apr 59.

1. IV. interni klinika KU, Ustav pro vseobecnou a pokusnou patologii,
Fakulta vseob. lek., Praha. Predneseno na III. fysiologickych dnech
v Brne dne 14. 1. 1959.

(PEPTIC ULCER, exper.
eff. of antihistaminics (Cz))
(ANTIHISTAMINICS, eff.
on exper. peptic ulcer (Cz))

KOHOUT, Jiri; HOSCHLOVA, Dana; KORBLOVA, Libuse; NOVAK, Simon.

Gastric secretion in humans following administration of anti-histaminics. Sborn. lek. 61 no.4:100-106 Apr 59.

1. IV. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. B. Prusik Interni oddeleni vojenske nemocnice v Terezine, prednosta plk. dr. F. Cistin. Ustav pro vseobecnou a pokusnou patologii fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. J. Hepner. As. dr. J. K., Iv. interni klinika, U Nemocnice 2, Praha 2.

(ANTIHISTAMINICS, eff.

on gastric secretion (Cz))

(GASTRIC JUICE,

secretion, eff. of antihistaminics (Cz))

EISELT, M.; KOHOUT, J.; KORBOVA, L.; PRAZAK, J.

Hypertensive disease without hypertension. Cas. lek. cesk. 98 no.11:
331-335 13 Mar 59.

1. IV. interní klinika v Praze, přednosta prof. dr. B. Prusik. Ústav
pro všeobecnou a pokusnou patologii, přednosta prof. dr. J. Hepner.
E. E., Praha 2, U Nemocnice 2.

(HYPERTENSION,

hypertensive dis. without hypertension)

KOHOUT, J.; KORBOVA, L.; KOENALIK, F.

Effect of antihistaminics on the development of experimental gastric ulcers. Cas. lek. cesk. 98 no.20:636-640 15 May 59.

1. IV. interni klinika v Praze, prednosta prof. dr B. Prusik. Ustav pro vseobecnu a pokusnou patologii v Praze, prednosta prof. dr. J. Hepner. J.K., Praha 2, U nemocnice 2. Do redakce doslo v cervenci 1958.

(PEPTIC ULCER, exper.

eff. of alfadryl (Cz))

(ANTIHISTAMINICS, effects,

alfadryl on exper. peptic ulcer (Cz))

KORBOVA, L.; KOHOUT, J.; KORNALIK, Fr.

Effect of antihistaminics on the appearance of experimental peptic ulcer. II. Effect of various doses of analergin and phenergan on the appearance of experimental peptic ulcer in guinea pigs. Cas.lek.cesk.99 no.35:1111-1114 26 Ag'60.

1. Ustav pro vseobecnou a pokusnou patologii fakulty vseobecneho lekarstvi KU v Praze, prednosta prof.dr. J.Hepner -- IV. interni klinika fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr. M.Fucik.

(PEPTIC ULCER exper)
(ANTIHISTAMINICS pharmacol)

KOHOUT, J.; KORBOVA, L.; BLAZEK, K.

Effect of antihistaminic drugs on the appearance of experimental gastric ulcer. III. Effect of mephenhydramine (alphadril) and polydroxyethylenesorbitanmonosulfate on the appearance of gastric ulcers in guinea pigs. Cas.lek.cesk 100 no.29/30:905-909 14 JI '61.

1. IV. interni klinika Fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. MUDr. M. Fučík. Ustav pro vseobecnou a pokusnou patologii Fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. MUDr. J. Hepner. Ustredni biochemicke laboratore KUNZ, IN I, prednosta MUDr. J. Hrabane.

(PEPTIC ULCER exper)
(ANTI-HISTAMINISA pharmacol)

KORBOVA, Libuse; KOHOUT, Jiri; BLAZEK, Karel; Technicka spoluprace
PROCHAZKOVA, M.

Changes in the kinetics of heat inactivation of pepsins. Cas. lek.
cesk. 101 no.24/25:753-757 22 Je '62.

1. Ustav pro vseobecnou a pokusnou patologii fakulty vseobecneho
lekarstvi KU v Praze, prednosta prof. dr. J. Hepner. IV interni klinika
fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr. M. Fucik.
Centralni biochemicke laboratore KUNZ v Praze, prednosta MUDr. J.
J. Hrabane.

(NEUROSES experimental) (PEPSINS chemistry) (HEAT)

KOHOUT, J.; KORBOVA, L.; KORAL, V.; BLAZEK, K.

Central nervous influences on the denaturation of pepsin. *Activ. nerv. sup.* 4 no.3/4:466-470 '62.

1. Fourth Clinic of Internal Medicine Inst. of Experimental Pathology
Central Biochemical Laboratory, Charles University, Prague.
(REFLEX CONDITIONED) (PEPSIN) (GASTRIC JUICE)
(CENTRAL NERVOUS SYSTEM)

CZECHOSLOVAKIA UDC 616.33-002.44-092.9-008.9(:577.158.42)-074

PROCHAZKA, B.; KOHOUT, J.; KORBOVA, L.; JIRASEK, V.; BARTA, V.;
PROCHAZKOVA, M.; 4th Internal Clinic Fac. of Gen. Med. Charles
University (IV. Interni Klinika Fak. Vseob. Lek. KU), Prague,
Chief (Prednosta) Prof Dr M. FUCIK; Institute of Pathological
Physiology, Fac. of Gen. Medicine, Charles University (Ustav
Patologicke Fyziologie Fak. Vseob. Lek. KU), Prague, Chief (Pred-
nosta) Prof Dr T. TRAVNICEK; 1st Internal Clinic Fac. of Gen.
Medicine, Charles University (I. Interni Klinika Fak. Vseob. Lek.
KU), Prague, Chief (Prednosta) Prof Dr V. HOENIG.

"Changes in the Pattern of Lactic Dehydrogenase Isoenzymes in
Experimental Gastric Lesions."

Prague, Casopis Lekarů Ceskych, Vol 105, No 49-50, 9 Dec 66, pp
1359 - 1364

Abstract / Authors' English summary modified 7: Experiments with
rats were conducted. Ratio of individual LDH isoenzymes is a
function of changes produced by anaerobic glycolysis and oxidat-
ive cycles. Fundic mucosa and pyrolytic mucosa show a physio-
logical difference with LDH isoenzymes. Near lesions LDH 1 in-
creases and LDH 5 increases. 9 Figures, 1 Table, 9 Western, 2
1/1 Czech references.

CERVENKA, Rudolf; STEPANEK, Miroslav; VOTAVOVA, Milena; CERVENKOVA, Eva;
KORBOVA, Milada; KANDLER, Maximilian

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824610001

Limnological study of the reservoir Sedlice near Zeliv; part 7: Methods
of selecting new algicide compounds. Sbor pal vod VSChT no.3, part 1:
247-290 '59.

1. Terenni laborator Ustavu hygieny v Sedlici; and Katedra technologie
vody Vysoke skoly chemicko-technologicke, Praha.

KORBOVA, M.

Determination of magnesium in the presence of calcium with 8-hydroxyquinoline.
In German. p. 17

Vol. 20, no. 1, Feb. 1955
SBORNIK CHEKOSLOVATSKIKH KHMICHESKIKH RABOT
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

KORBOVA, M.

MD \checkmark Complexometric determination of calcium and magnesium in water. *Pr. Červenka and M. Korbová (Ústav hyg., Prague). Chem. Listy 59, 300-8 (1950).* Ca is titrated with an aq. soln. of the di-Na salt of ethylenediaminetetraacetic acid (E) (13.27 g. in 1 l. water) with a minimal amt. of murexide as indicator. The no. of ml. gives directly the German degrees of Ca hardness. After acidifying with N HCl and adding buffer soln. contg. 54 g. NH₄Cl and 350 ml. 25% NH₄OH in 1 l., Mg is detd. in the same sample with 1 end Eriochrome Black T. The no. of ml. gives the Mg hardness. The interfering influence of Fe and heavy metals present in waste waters is removed by addn. of KCN or buffer soln. contg. Na₂B₄O₇·10H₂O 40; NaOH 10; and Na₂S 5 g. in 1 l. water. L. L. Ubbelohde

120 AND 87M CODES

1ST AND 2ND CODES

PROCESSES AND PROPERTIES INDEX

KORBOVA M

B

2

Catalysts for the Blast Furnace Reduction Process. M. I. Korbova and N. I. Korobov. Henry Brucher (Altadena, Calif.), Translation No. 2286, 1940, 17 pages. From *Bulletin de l'Academie des Sciences de l'URSS, Classe Science Technologie*, no. 4, 1940, p. 567-577.

Describes reducing power of CO and H. Tabulates data on steam introduced, blast temperature and volume, daily furnace production, fuel consumption, and top gas temperatures. Discusses differences in combustion with steam-air as compared with dry air.

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

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KORBRONSKAYA, Ya. I.

Korbronskaya, Ya. I. - "Some results of the study of rust fungi of Tadzhikistan",
Soobshch. Tadh. filiala Akad. nauk SSSR, Issue 9, 1948, p. 13-15, - Bibliog: 5 items.

SO: U-3042, 11 March 1953, (letopis 'nykh Statey, No. 10, 1949).

ZITTI, Ye.; BRAND, L.; KORB, M.; POPA, V.

Bilateral pulmonary resections in tuberculosis [with summary
in English]. *Khirurgia* 35 no.1:25-28 Ja '58. (MIRA 12:2)

1. Iz tuberkuleznogo sanatoriya Moroyen' Rumyniya.
(PNEUMONECTOMY, in var. dis.
tuberc., bilateral (Rus))

AZIMOV, S.A.; USMANOV, Kh.Y.; KORBUJ, N.V.; SLEPAKOVA, S.I.

Gamma-ray induced grafting of some monomers onto natural silk and capron. Vysokom. soed. 2 no.10:1459-1462 0 '60. (MIRA 13:9)

1. Fiziko-tehnicheskiy Institut i Institut khimii polimerov AN UzSSR.

(Gamma rays) (Nylon) (Silk)

KORBUG, Ye.V., inzh.; MERKHALEV, S.D., kand. tekhn. nauk; STANKEVICH, G.S.,
inzh.; Prinsipal uchastiy PAVLOV, K.A.

Study of the discharge characteristics of soiled insulators.
Elektrichestvo no.3:76-81 Mr '62. (MIRA 15:2)

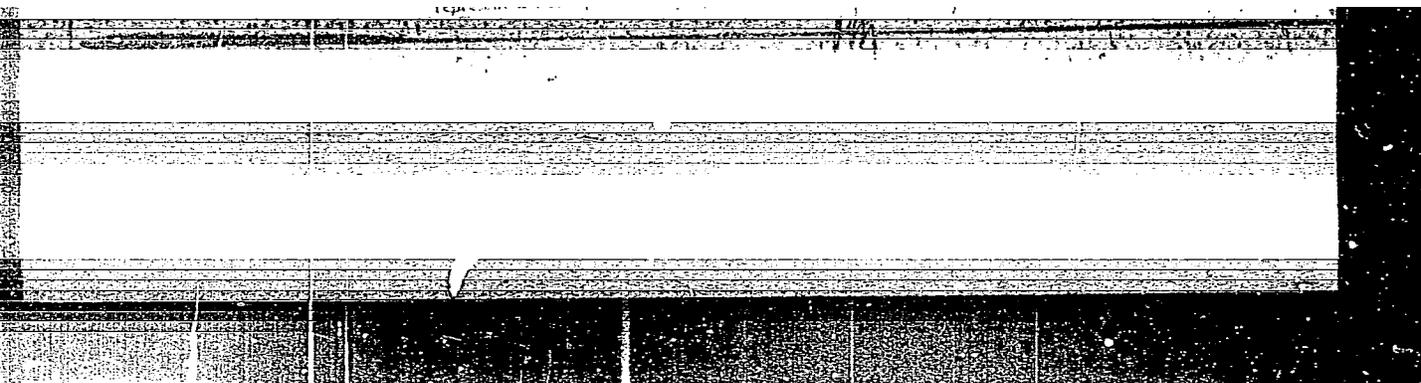
1. Nauchno-issledovatel'skiy institut postoyannogo toka.
(Electric insulators and insulation)

Condensation of phenol with 1,1,1-trichloro-2-propene and 1,1,3-trichloro-2-propene. L. Kozlovskiy, *Trudy Vostochno-Sibir. Nauch. Inst. Khim. 1959, No. 4, 50-51*. *Chem. Abstr.* 53:10000 (1959). (I) is condensed with phenol (II) by heating at 140°C in their equimolar mixt. with an equimolar 45-50% aq. NaOH for 1-2 hrs. The products of the reaction are separated by azeotropic distillation and their fractions which after distillation give about 80% of $C_9H_7Cl_3$ (III) and $C_9H_7Cl_2$ (IV). By methylation of IV with Me_2SO or CCl_4 $MeOC_9H_6Cl_2$ (V) is obtained. Oxidation of V with $KMnO_4$ in neutral media gives anisic acid. The condensation of $C_9H_7Cl_2$ (VI) with II under the same conditions

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APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824610001-9"

SMIRNOV, Ye.A.; KORBUKH, I.A.

Compound with two electron-donor systems. Part 2. Chromaticity effect in the derivatives of p-dimethylaminoanilide of N-phenyl-4-nitrohippuric acid. *Izv. vys. ucheb. zav.; khim. i kaim. tekhn.* 7 no.4:603-606 '64. (NFA 17:12)

1. Kafedra organicheskoy khimii Moskovskogo tekstil'nogo instituta.

SMIRNOV, Ye.A.; KORBUKH, I.A.

Compounds with two electron-donor systems. Part 1: Phenomena of chromaticity in derivatives of p-dimethylaminoanilide of N-phenyl-3,5-dinitrohippuric acid. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 7 no.3:425-431 '64.

(MIRA 17:10)

1. Moskovskiy tekstil'nyy institut, kafedra organicheskoy khimii.

SMIRNOV, Ye.A.; KORBUKH, I.A.

Chromaticity of azomethines containing a separate electron-donor system. Dokl. AN SSSR 160 no.2:373-375 Ja '65.

(MIRA 18:2)

1. Moskovskiy tekstil'nyy institut. Submitted August 29, 1964.

SOV/24-58-12-12/27

AUTHOR: Korbukova, L.D., (Novgorod)

TITLE: The Bending of an Elliptical Anisotropic Plate Clamped at the Edges (Izhib ellipticheskoy anizotropnoy plastinki, zadelannoy po krayu)

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 12, pp 78-84 (USSR)

ABSTRACT: The plate is assumed to have at each point a plane of elastic symmetry parallel to the middle surface, and the deflection (w) of the plate is considered under the action of a concentrated force applied to its middle point. The deflection must satisfy the differential equation (Lekhnitskiy, Ref.1) where

$$\Delta_1 = \frac{\partial^2}{\partial y^2} - (\mu_1 + \bar{\mu}_1) \frac{\partial^2}{\partial x \partial y} + \mu_1 \bar{\mu}_1 \frac{\partial^2}{\partial x^2} \quad (1.1)$$

$$\Delta_2 = \frac{\partial^2}{\partial y^2} - (\mu_2 + \bar{\mu}_2) \frac{\partial^2}{\partial x \partial y} + \mu_2 \bar{\mu}_2 \frac{\partial^2}{\partial x^2}$$

q is the load per unit area, distributed over the surface of the plate; μ_1 and μ_2 are the imaginary roots of the equation

Card 1/3

SOV/24-58-12-12/27

The Bending of an Elliptical Anisotropic Plate Clamped at the Edges

$$D_{22}\mu^4 + 4D_{26}\mu^3 + 2(D_{12} + 2D_{66})\mu^2 + 4D_{16}\mu + D_{11} = 0 \quad (1.2)$$

in which D_{ij} are the plate rigidities. The deflection w also has to satisfy the conditions at the clamped edges

$$w = 0, \quad \frac{\partial w}{\partial n} = 0 \quad (1.3)$$

where n is the external normal at the boundary. A particular solution of equation (1.1) for a concentrated force at the centre of the plate is

$$w_0 = A_1 z_1^2 \ln z_1 + \bar{A}_1 \bar{z}_1^2 \ln \bar{z}_1 + A_2 z_2^2 \ln z_2 + \bar{A}_2 \bar{z}_2^2 \ln \bar{z}_2 \quad (1.9)$$

where A_1 and A_2 are complex constants, which are determined in the paper by a complex variable method.

The specialisation of the solution to the isotropic case

Card 2/3

SOV/24-58-12-12/27

The Bending of an Elliptical Anisotropic Plate Clamped at the Edges
is considered; this problem has previously been
discussed by D. I. Sherman. There is 1 figure and
5 Soviet references.

SUBMITTED: 24th June 1958.

Card 3/3

KORBUKOVA, L. D. Cand Phys-Math Sci -- (diss) "On the problem of the bending
of elliptic and square anisotropic plates sealed ^{along} at the edges." Mos, 1959.
5 pp (Acad Sci USSR. Inst of Mechanics), 150 copies. Bibliography at end
of text (10 titles) (KL, 49459, 137)

AUTHOR: Korbukova, L. D. (Novgorod) SOV/179-59-3-34/45

TITLE: Bending of a Square Anisotropic Plate with Clamped Edges
(Izhib kvadratnoy anizotropnoy plastinki, zadelannoy po krayu)

PERIODICAL: Izvestiya Akademii nauk, SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 3, pp 184-189 (USSR)

ABSTRACT: The paper is a continuation of previous work (Ref 3), and deals with the lateral deflection (w) and bending moments M in a clamped square plate with rounded corners subjected to a uniform load q per unit area. The deflection w is governed by the differential equation:

$$\Delta_1 \Delta_2 w = q/D_{22}$$

$$\text{where } \Delta_1 = \frac{\partial^2}{\partial y^2} - (\mu_1 + \bar{\mu}_1) \frac{\partial^2}{\partial x \partial y} + \mu_1 \bar{\mu}_1 \frac{\partial^2}{\partial x^2},$$

$$\Delta_2 = \frac{\partial^2}{\partial y^2} - (\mu_2 + \bar{\mu}_2) \frac{\partial^2}{\partial x \partial y} + \mu_2 \bar{\mu}_2 \frac{\partial^2}{\partial x^2}$$

Card 1/2

SOV/179-59-3-34/45

Bending of a Square Anisotropic Plate with Clamped Edges

and μ_1, μ_2 are the imaginary roots of the characteristic equation

$$D_{22}\mu^4 + 4D_{26}\mu^3 + 2(D_{12} + 2D_{66})\mu^2 + 4D_{16}\mu + D_{11} = 0$$

in which the D_{ij} are the rigidities of the plate. The solution, subject to the boundary conditions, is effected with the aid of complex variable and integral equation theory. It is illustrated by calculating the deflection at the centre and the bending moments at three points of an orthotropic plate made of glass fibre (Ref 4). There are 1 figure, 1 table and 4 references, all of which are Soviet.

SUBMITTED: March 13, 1959

Card 2/2

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Uncl.

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Iras, Jeno dr.) kosl.

(PNEUMONIA, LOBAR, compl.

monoliasis in adult, bacteriol. & antibiotic
ther. (Hun))

(MONOLIASIS, etiol. & pathogen.

pneumonia, lobar, in adult, bacteriol. &
antibiotic ther. (Hun))

(ANTIBIOTICS, Ther. use

monoliasis in lobar pneumonia. (Hun))

KORBULY, Jozsef, mech. engineer

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Kem tud kozl MTA 16 no.1:123-124 '61.

1. Banyaszati Kutato Intezet, Budapest.

(Coal)

GAL, Erno, dr., Chem.eng., Cand. of ch.sc.; KORBULY, Judit, Chem.eng.

Determination of the swelling index of coking coal in electric furnaces. *Izvestia Bany KI* no.5:206-210 '61.

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1. Orszagos Muszaki Konyvtar.

KORBUSH, K.I.
BERMAN, Lev Davidovich; KORBUSH, K.I., redaktor; LARIONOV, G.Ye., tekhnicheskii redaktor

[Evaporative cooling of circulating water] Isparitel'noe okhlazhdenie tsirkulatsionnoi vody. Izd. 2-oe, perer. Moskva, Gos. energ. izd-vo, 1957. 318 p.
(Evaporating appliances) (Cooling towers) (MIRA 10:6)

KONSOUL A.

USSR/ Electronics - Record players

Card 1/1 : Pub. 89 - 11/26

Authors : Naydenov, A.; Korbut, A.; and Konchinyan, G.

Title : The "UP-2" universal record player

Periodical : Radio 12, 26-27, Dec 1954

Abstract : A record player manufactured by the "Elpha" factory in the city of Vilna (Lithuania) is described. Design and technical details are given together with a circuit diagram. Drawings; circuit diagram.

Institution :

Submitted :

KORBUT, A., fel'dsher

In Luninets District. Zdrav. Belor. 6 no.4:77 Ap '60.
(MIRA 14:5)

(LUNINETS DISTRICT—PUBLIC HEALTH)

KORBUT, A.A., inzh.; KAMENETSKIY, L.Ye., kand. ekonom. nauk; VAYSBURD, B.M.,
inzh.

Using linear programming methods in planning the expansion of the Kansk-
Achinsk coal basin. Izv. vys. ucheb. zav.; gor. zhur. 7 no. 6: 48-51 '64.
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institut po proyektirovaniyu shakht (for Kamenetskiy, Vaysburd).

KORBUT, A.A.; NEMCHINOV, V.S., akademik, otv.red.; NOVOSEILOV, V.V.,
red.; PINSKER, A.G., red.; SOKOLITSYN, S.A., red.; LUCHINA, A.N.,
red.isd-va; SHEVOCHENKO, G.N., tekhn.red.

[Transactions of the Scientific Conference on the Use of
Mathematical Methods in Economic Research and Planning] Trudy
Nauchnogo soveshchaniia o primeneni matematicheskikh metodov
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(Mathematical statistics--Congresses)

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KORBUT, A.A., mladshiy nauchnyy sotr.; NEMCHINOV, V.S., akademik, otv. red.; KANTOROVICH, L.V., otv. red. toma; GERCHUK, Ya.P., kand. ekon. nauk, dotsent, otv. red. toma; RUBINSHTEYN, G.Sh., kand. fiz.-matem. nauk, dotsent, otv. red. toma; SEREBROVSKIY, L.A., red. izd-va; VOLKOVA, V.V., tekhn. red.

[Works of the Scientific Conference on the Use of Mathematical Methods in Economic Planning and Research] Trudy Nauchnogo soveshchaniia o primenii matematicheskikh metodov v ekonomicheskikh issledovaniakh i planirovanii. 1960. Moskva, Izd-vo Akad. nauk SSSR. Vol.4. [Linear programming] Lineinoe programirovanie. 1961. 126 p. (MIRA 15:1)

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KAMENETSKIY, L.Ye., kand. ekonom. nauk; KORBUT, A.A.

Using the linear programming method for solving problems in the expansion of the Kansk-Achinsk Basin. Ugol' 40 no.2:29-31 F '65.

(MIRA 19:4)

1. Gosudarstvennyy institut po proyektirovaniyu shakht (for Kamenetskiy).
2. Leningradskiy vychislitel'nyy tsentr (for Korbut).

L 05229-67 EWT(d)/T/EWP(1) IJP(c)
ACC NR: AR6017090

SOURCE CODE: UR/0372/65/000/012/V040/V040

AUTHOR: Korbut, A. A.

TITLE: Problems of integer linear programming

SOURCE: Ref. zh. Kibernetika, Abs. I2V260

REF SOURCE: Sb. Ekon. -matem. metody. Vyp. 2. M., Nauka, 1965, 141-186

TOPIC TAGS: linear programming, distribution theory, operations research, algorithm

ABSTRACT: At present integer problems are among the most important (and most difficult) types of linear programming problems. A fairly large number of studies is being published on this subject and the non-specialist does not find it easy to orient himself in these studies. The present article provides a survey of publications on integer programming up to 1964 and thus fills an important gap in the Russian-language literature on mathematical programming. The survey pertains to the following classes of integer problems: 1) Extremal problems of combinatorial type; a) unimodular problems; b) general problem of the scheduling theory; c) the traveling salesman problem; 2) Problems with nondivisible types of production or resources; a) general problem; b) problem of the selection of machinery in the production plan; c) problem of the deployment of ships along routes; d) linear programming problems restricted to the

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number of applicable methods; e) the knapsack problem; f) the problem of the distribution of machine memory; 3) Linear programming problems relating to nonconvex and nonconnected domains; 4) Linear programming problems with inhomogeneous (discontinuous) objective function. With respect to the inhomogeneous objective function problem a brief exposition of Balinskiy's method and of its modification developed at the Leningrad Computer Center of the Academy of Sciences USSR is presented. Considerable space is devoted to methods of solution of integer problems. A method of solution of the knapsack problem is presented. A survey of the methods proposed by various authors (Gomory, Dantzig, A. Land and Doig, Benders, For and Malgrange, and others) for the solution of the general problem of integer linear programming is presented. The publications dealing with nonlinear (and chiefly quadratic) problem of integer programming are briefly summarized. The well-known Gomory algorithm (Ref. Zh. Mat., 1959, 7256) and its modification pertaining to mixed-integer programs are described in detail. Numerical examples of the solution of the all-integer and mixed-integer programs by means of the Gomory method are presented. Certain findings on the solution of problems of integer linear programming by means of computers also are presented. Bibliography of 74 titles. Yu. Finkel'shteyn. [Translation of abstract]

SUB CODE: 12, 09, 05

Card 2/2 *ah*

KORHUT, A.V., fed'dsher (selo Lakhva Brestkoy oblasti)

Sanitary prophylactic measures and Red Cross work on a collective farm.
Fel'd. i akush. 21 no.12:39-40 D '56. (MIRA 10:1)
(PUBLIC HEALTH, RURAL) (RED CROSS)

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